

DATE

4/12

TRANSMITTAL SLIP

TO:

Reg.

ROOM NO.

BUILDING

REMARKS:

to be
logged

FROM:

ROOM NO.

BUILDING

EXTENSION

FORM NO.

REDI ACES FORM 26-2

~~CONFIDENTIAL~~

OS REGISTRY

19 APR 1988

MEMORANDUM FOR: See Distribution

25X1 FROM:

[redacted]
Chief, Information Systems Branch, Engineering
Division, EAG/PTS/OS

SUBJECT: Draft of Five-Year Polygraph Instrumentation
Program Plan

25X1 1. In coordination with INSB, [redacted] has completed a draft of
the five-year Polygraph Instrumentation Program Plan. This
25X1 Program Plan updates the previously released August 1987 version.
[redacted]

2. Attached is a copy of the draft Program Plan for your
review. As in the past, INSB would like to meet with each member
of the Working Group to discuss their impressions and critiques of
this document. We will contact each member within the next few
days to set up meetings for the week of 18 April 1988.

25X1 3. Also please find attached the minutes from the 23 March
1988 Bidders Conference for the Phase I Modern Polygraph System
(MPS). [redacted]

25X1 4. If there are any questions or comments regarding the
attached, please contact [redacted]
[redacted]

25X1 Attachments:
As Stated.

25X1 ~~CONFIDENTIAL~~

~~C O N F I D E N T I A L~~

SUBJECT: Draft of Five-Year Polygraph Instrumentation Program Plan

Distribution:

1 - [] - DC/PD/PS/OS
1 - [] - PD/PS/OS
1 - [] - RAS/PS/OS
1 - [] - PD/PS/OS
1 - [] - OMS
1 - [] - RISD/OMS
1 - [] - ORD/S&T
1 - [] - ORD/S&T
1 - [] - ORD/S&T
1 - [] - OIT
1 - [] - ADP Coordinator/OS
1 - C/ED/EAG/PTS/OS
1 - C/INSB/ED/EAG/PTS/OS
1 - [] - INSB/ED/EAG/PTS/OS
1 - Registry

25X1

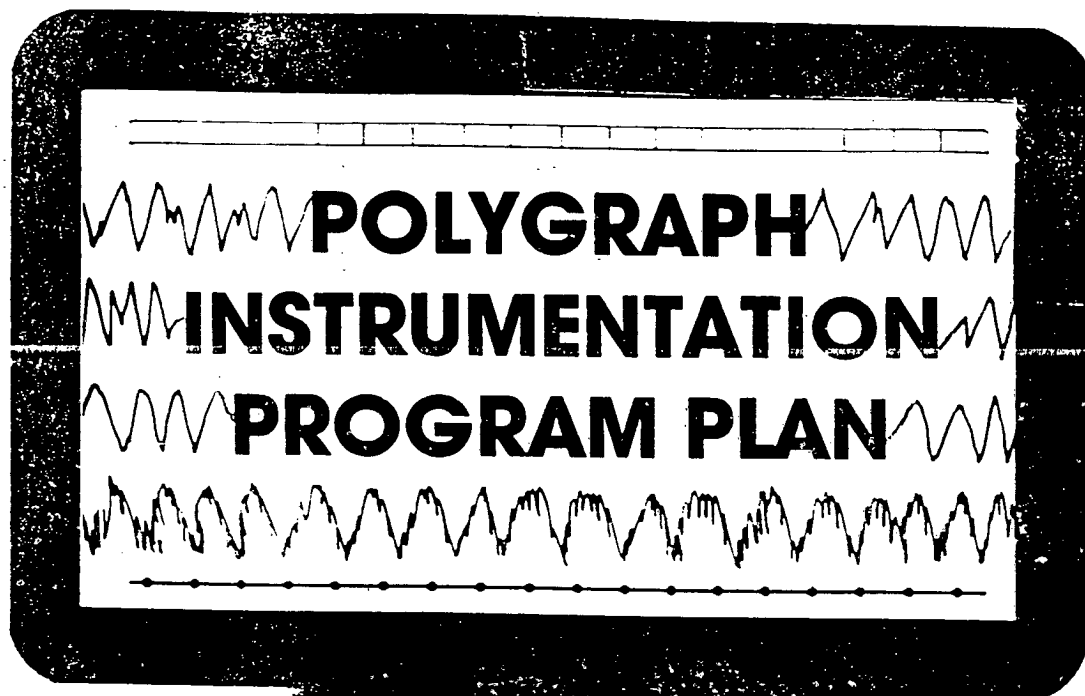
25X1

~~C O N F I D E N T I A L~~

Page Denied

Next 2 Page(s) In Document Denied

~~CONFIDENTIAL~~



April 1988

DRAFT



~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

LOG # USG - 0415-88-C

U. S. GOVERNMENT

2

25X1

POLYGRAPH INSTRUMENTATION PROGRAM PLAN

(REVISED DRAFT)

5 APRIL 1988

CLASSIFIED BY: CUSTOMER
DECLASSIFY ON: OADR

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

POLYGRAPH INSTRUMENTATION PROGRAM PLAN

(DRAFT)

APRIL 1988

Polygraph Instrumentation Working Group (PIWG) Membership:

Office of Security (OS)

Office of Research and Development (ORD)

Office of Medical Services (OMS)

This document was prepared by in support of the PIWG.

~~CONFIDENTIAL~~

Page Denied

Next 2 Page(s) In Document Denied

~~CONFIDENTIAL~~

1.0 EXECUTIVE SUMMARY

25X1 This Polygraph Instrumentation Program Plan (PIPP) describes the technical and management approach, the schedule milestones and the resources required to develop state-of-the-art instrumentation for a Modern Polygraph System (MPS). The Plan was prepared by the Polygraph Instrumentation Working Group (PIWG) in response to the Polygraph Steering Committee (PSC) requirement for an annual plan corresponding to the budget cycle. The original PIPP was published in August 1987 and described activities through fiscal year (FY) 1990. This Plan describes activities beginning with the current fiscal year and extending through FY 1993. []

25X1 Since the publication of the previous plan, important milestones have been achieved towards development of the MPS. In August 1987, the PSC was formally established to coordinate current efforts to enhance polygraphy in each of four main areas of concern: instrumentation, validity, countermeasures, and methodology. In accordance with its charter, the PSC has established Working Groups to plan, execute, and report on research and development activities in each of these four areas. The charter identifies the Chief, Office of Security, Polygraph Division (OS/PD), as the Polygraph Program Manager. Each of the four working groups is currently holding regular meetings. []

25X1 In recent months, important steps have been taken by the PIWG in preparation for a contract award to develop instrumentation for the MPS. An MPS Requirements document was published in December 1987; a Statement of Work was completed in February 1988; and a bidders conference was held in March 1988. A contract award to start the first phase of development work is scheduled for May 1988. []

25X1 This Plan identifies six high-level program tasks which define the Agency-wide approach to improving polygraph instrumentation. The tasks are Program Planning and Analysis, Theoretical Instrumentation Research, Prototyping, MPS Development, Education and Training, and Polygraph Focal Point. These tasks address the eight major issues which the PIWG has identified as critical to the MPS development process. The eight issues are discussed in Section 3 of this Plan. Section 4 summarizes the current polygraph instrumentation in use by the Agency and describes prototype systems and new technology which may contribute to MPS development. Section 5 describes the six program tasks and identifies the roles and responsibilities of Agency components, the schedule milestones, and the resources required to accomplish each task. []

~~CONFIDENTIAL~~

CONFIDENTIAL

Section 5 of this Plan also includes a detailed description of the three MPS development phases identified in the December 1987 MPS Requirements document. Phase I calls for development of a brassboard version of a Modern Polygraph Terminal (MPT) which digitizes signals on up to eight sensor channels, stores and displays the resulting data, and provides software to automate the data acquisition process and assist the polygrapher in conducting the examination and performing off-line analysis of examination results. The brassboard will be delivered twelve months after contract award, and ten engineering models will be available for operational testing by OS/PD. The Phase II MPS development contract is scheduled for award at the start of FY 1990. Phase II will last eighteen months and will result in specific hardware/software enhancements to the MPTs as well as creation of a network including [] MPT and up to [] polygrapher MPTs. Installation of this nine-terminal network to support operational testing at OS/PD is scheduled for August 1990. Phase III will provide further MPT and network upgrades including development of portable MPTs and creation of an administrator position to coordinate the work of multiple supervisor networks and provide interfaces to other activities. Phase III is scheduled to last eighteen months with a fully operational MPS in place when the development contract is over in September 1992. []

25X1
25X1

The Plan execution requires approximately [] (equivalent full-time) Agency personnel. For the six year period beginning with FY 1988, the Plan projects a total cost of [] This includes estimates for the OS/PD, the Office of Security/Engineering Division (OS/ED), and the Office of Research and Development (ORD). The OS/ED estimates include the Development Contractor costs [] and amounts for the systems engineering and integration Contractor [] Estimates for OS/PD include procurement/installation costs [] operation and maintenance [] systems engineering and integration Contractor support [] and R&D contractor/consultant services [] Estimates for the ORD effort for R&D contractors/consultants [] also are included in the total Plan budget. []

25X1

In summary, this Polygraphy Instrumentation Program Plan provides the guidance to satisfy Instrumentation needs in both the short and long term. It addresses Instrumentation planning, guides new research, provides a prototyping environment for proof-of-concept testing, and incorporates empirical results into the development of a Modern Polygraph System. This system serves operational polygraphy as well as providing training and career enhancement tools and techniques for polygraphers. Finally, the Plan identifies a Focal Point which serves to consolidate, correlate, and disseminate polygrapher information on an Agency-wide basis. []

CONFIDENTIAL

Page Denied

Next 60 Page(s) In Document Denied